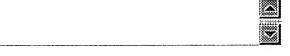# Refine Search

Terms	Documents
L1 AND deploy	22

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L4

Refine Search

Recall Text   Clear   Interrupt

Search History

DATE: Sunday, May 15, 2005   Printable Copy   Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT; PLUR=NO; OP=OR			
L4	L1 AND deploy	22	L4
L3	L2 AND (order OR sequence)	32	L3
L2	L1 AND workflow	32	L2
L1	(EBJ) OR (Enterprise ADJ javabeans) OR (enterprise ADJ JAVA ADJ Beans)	169	L1

END OF SEARCH HISTORY

Hit List

Search Results - Record(s) 1 through 22 of 22 returned.

☐ 1. Document ID: US 6892202 B2

L4: Entry 1 of 22   File: USPT   May 10, 2005

US-PAT-NO: 6892202
DOCUMENT-IDENTIFIER: US 6892202 B2

TITLE: Optimistic transaction compiler

DATE-ISSUED: May 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arcand; Jean-Francois	Santa Clara	CA		

US-CL-CURRENT: 707/10; 707/8

ABSTRACT:

A method for updating Enterprise JavaBeans (EJB) classes is provided. Each EJB
class is managed by an application server which maintains a database of active EJB
classes. The method includes defining an update plug for an existing EJB class and
assigning the update plug to the existing EJB. The method also includes compiling
the existing EJB class using the update plug to generate a dependent EJB class. The
dependent EJB class uses an adapter and a contract to gain access to methods of the
dependent EJB class. Each method of the dependent EJB class is associated with an
algorithm that defines a locking timestamp.

20 Claims, 11 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 11

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De- |

☐ 2. Document ID: US 6859922 B1

L4: Entry 2 of 22   File: USPT   Feb 22, 2005

US-PAT-NO: 6859922
DOCUMENT-IDENTIFIER: US 6859922 B1

TITLE: Method of providing software testing services

DATE-ISSUED: February 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baker; Caren H.	Waltham	MA		
Friedman; George	Framingham	MA		
Glik; Michael V.	Newton	MA		
Vahey; Walter G.	Winchester	MA		

US-CL-CURRENT: 717/125; 705/51, 717/120, 717/121, 717/124

ABSTRACT:

A system that provides easy testing of software objects and reduces the burden on a program developer for maintaining a test system is presented. The system accepts as an input objects and automatically creates test drivers for these objects. The test objects are provided to a test bed comprising an application server where the objects are tested by application of the test drivers.

In a preferred embodiment, the test bed comprises a collection of application servers. An application service provider provides the system test driver and the test bed. Access to the test system is provided by passing a representing of the object under test to the application service provided through a network interface. The application service provider provides test services on a fee for service basis.

17 Claims, 1 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

☐ 3.   Document ID: US 6859834 B1

L4: Entry 3 of 22   File: USPT   Feb 22, 2005

US-PAT-NO: 6859834
DOCUMENT-IDENTIFIER: US 6859834 B1

TITLE: System and method for enabling application server request failover

DATE-ISSUED: February 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arora; Tej	Sunnyvale	CA		
Das; Saumitra	Santa Clara	CA		

US-CL-CURRENT: 709/227; 709/225, 714/4

ABSTRACT:

System and method for enabling application server request failover. For each

application server request to be performed by a client computer, a requesting
thread may be operable to utilize a custom wire-level communication protocol.
Request failure detection mechanisms may be built into the custom wire-level
communication protocol so that a requesting thread detects a failed request much
sooner than if the thread utilized a standard communication protocol and relied on
the client computer operating system for notification of failed requests. After
sending a request to an application server, a requesting thread may be operable to
"sleep" and then periodically wake up to poll the application server computer to
determine whether the request has failed. If the requesting thread receives a
response from the application server computer indicating that the request is not
currently being processed, then the requesting thread may re-send the request.
Receiving no response to the poll message may indicate that the application server
computer is offline, e.g., due to a failure. The requesting thread may redirect the
request to another application server computer if necessary.

48 Claims, 25 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 25

☐ 4. Document ID: US 6850893 B2

US-PAT-NO: 6850893
DOCUMENT-IDENTIFIER: US 6850893 B2

TITLE: Method and apparatus for an improved security system mechanism in a business
applications management system platform

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lipkin; Daniel S.	Belmont	CA		
Mehra; Gaurav	Bandra (w) Mumbai			IN

US-CL-CURRENT: 705/8; 434/118, 434/350, 434/362, 705/76, 705/9, 707/1, 707/103R,
713/182, 713/200, 713/201

ABSTRACT:

The present invention provides a solution to the needs described above through an
improved method and apparatus for an improved security system mechanism in a
business applications management system platform. The security management system
partitions a number of business objects into a number of hierarchical domains. A
security list is then created and configured to grant a member the right to perform
a security operation on the business object located within the hierarchical domain.
The security list is created by adding the security operation to the security list,
applying the security operation to one of the multiple domains, and adding members
to the security list.

32 Claims, 19 Drawing figures

☐ 5. Document ID: US 6826716 B2

L4: Entry 5 of 22   File: USPT   Nov 30, 2004

US-PAT-NO: 6826716
DOCUMENT-IDENTIFIER: US 6826716 B2

TITLE: Test programs for enterprise web applications

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mason; Carlton Keith	Austin	TX		

US-CL-CURRENT: 714/38; 713/202, 717/131

ABSTRACT:

Testing J2EE applications, wherein J2EE applications comprise modules, the testing
including identifying (204), from an application deployment descriptor, modules
comprised within the J2EE application; identifying, from an identified module, at
least one QOS element; and identifying, from the identified QOS element, a software
resource to be tested. Typical embodiments further including generating Java test
code; identifying, for the software resource to be tested, a user identification
and a user password for a user that is a member of a role intended to protect the
software resource; and testing the software resource to be tested by use of the
Java test code, including passing as parameters to the Java test code at run time
the user identification and user password.

30 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

☐ 6. Document ID: US 6816882 B1

L4: Entry 6 of 22   File: USPT   Nov 9, 2004

US-PAT-NO: 6816882
DOCUMENT-IDENTIFIER: US 6816882 B1

TITLE: System and method for automatically negotiating license agreements and
installing arbitrary user-specified applications on application service providers

DATE-ISSUED: November 9, 2004

INVENTOR-INFORMATION: .

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conner; Michael Haden	Austin	TX		
Vicknair; Wayne Elmo	Austin	TX		
Becker; Craig Henry	Austin	TX		
Nicholas; Stewart E.	Austin	TX		

US-CL-CURRENT: 709/203; 709/217, 709/219

ABSTRACT:

A user contracts with an application service provider for hosting a needed
application. By contracting with a service provider the user may interact with the
application by using only a thin client rather than maintaining a thick client. The
user rents an application from either the service provider or an independent
application provider. If the user procures the application from an application
provider, the application provider negotiates hosting terms with the service
provider prior to installing the application into the service provider's warehouse.
The application provider also checks that the services provided by the service
provider meet the minimum requirements of the application. Once installed, the
service provider may offer the application to other users along with services for
the application. The user may procure additional services from the service provider
for supporting the application. A user can then dynamically download the
application "on-demand".

16 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw C- |

☐ 7.   Document ID: US 6766477 B2

L4: Entry 7 of 22   File: USPT   Jul 20, 2004

US-PAT-NO: 6766477
DOCUMENT-IDENTIFIER: US 6766477 B2

TITLE: Distributed component testing in an enterprise computer system

DATE-ISSUED: July 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grucci; Kyle T.	Nashua	NH		
Vellayappan; Raman	Arlington	MA		
Kincaid; Thomas J.	North Andover	MA		

US-CL-CURRENT: 714/38; 719/315

ABSTRACT:

A method of automatically performing a component test at any number of locations in a distributed environment is disclosed. In general, in order to assure compatibility of the various components in an enterprise computing system, a service test is created as part of a compatibility test suite and passed to a test application server having a test application program. The test application program includes a generic vehicle class that includes a plurality of vehicle class invokers each of which is used to implement each of the object types that are run in each of a plurality of containers. During the build process of the CTS, each service test is automatically packaged with each of the appropriate vehicle classes so that each can be deployed into and run within the associated container.

20 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw [|

US-PAT-NO: 6746120
DOCUMENT-IDENTIFIER: US 6746120 B2

TITLE: Method and system for ordering customized cosmetic contact lenses

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Broderick; Daniel F.	La Jolla	CA		
Foppe; Ann T.	Elmurst	IL		
Santilli; James	Oak Park	IL		
Tucker; Robert Carey	Arlington Heights	IL		

US-CL-CURRENT: 351/177; 351/160R, 351/162

ABSTRACT:

A method of configuring and ordering a customized contact lens for a user. The method includes the steps of displaying a template eye image to assist the user in visualizing selected options for a customized contact lens, and displaying a plurality of contact lens selection options to the user. The information includes a plurality of selectable lens colors and lens design patterns. The method also includes the steps of sending an ordering request to order a contact lens incorporating lens colors and lens design patterns selected by the user, receiving the ordering request, and manufacturing a contact lens incorporating the lens colors and lens design patterns selected by the user.

33 Claims, 14 Drawing figures
Exemplary Claim Number: 1

Number of Drawing Sheets: 14

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☐ 9. Document ID: US 6745250 B1

US-PAT-NO: 6745250
DOCUMENT-IDENTIFIER: US 6745250 B1

TITLE: Finding named EJB homes via life cycle support

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cocks; Stephen James	Bournemouth			GB
Huang; Wei-Li Alexander	Austin	TX		
Knutson; James Irwin	Austin	TX		
Newcombe; Russell Ley	Round Rock	TX		

US-CL-CURRENT: 719/316; 707/10

ABSTRACT:

A method and implementing system are provided in which CORBA (Common Object Request
Broker Architecture) Life Cycle Service FactoryFinder capabilities are combined
with CORBA Naming Service resolve operations on a Naming Context. The methodology
allows EJBHomes in a distributed network to be found using CORBA Life Cycle
Services while maintaining support for the EJB (Enterprise Java Bean) programming
model of using JNDI (Java Naming and Directory Interface) lookup calls to locate
EJBHomes. Usage of Life Cycle Services in an EJB environment for finding EJBHomes
by using Naming interfaces is enabled while using Life Cycle Service semantics. An
exemplary embodiment is provided to allow deployment in different environments
(including environments without Life Cycle support) and reconfiguration of the
FactoryFinder being used, without requiring changes to source code.

16 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

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☐ 10. Document ID: US 6721747 B2

US-PAT-NO: 6721747
DOCUMENT-IDENTIFIER: US 6721747 B2

TITLE: Method and apparatus for an information server

DATE-ISSUED: April 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lipkin; Daniel S.	Belmont	CA		

US-CL-CURRENT: 707/10; 707/100, 707/200, 707/3, 707/8, 709/200, 709/202, 709/217, 709/225, 715/501.1, 715/513, 715/523

ABSTRACT:

The present invention provides a method and apparatus for managing information in an information resource system containing a server, a client, and a database, by generating metadata using an import agent, determining at least one match using a match agent, and dispatching the at least one match or a result associated with the match using a delivery agent. In an aspect of the invention, the metadata may be RDF metadata. In another aspect of the invention, the match agent may determine the match using an RQL query.

24 Claims, 19 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 17

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw |

☐ 11. Document ID: US 6718331 B2

US-PAT-NO: 6718331
DOCUMENT-IDENTIFIER: US 6718331 B2

TITLE: Method and apparatus for locating inter-enterprise resources using text-based strings

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Davis; Nathan Eugene	Austin	TX		
Herman; Peter W.	Apalachin	NY		

US-CL-CURRENT: 707/10; 709/219

ABSTRACT:

A standard format is provided for a text string called an enterprise identifier, which acts as a handle to access resources from disparate sources and technologies. Enterprise identifiers use extensible markup language format to allow a resource identifier to be created manually without accessing the resource. The identifier

may be passed between enterprises via business-to-business connection, e-mail, telephone, or facsimile. Data may be extracted from the identifier for display or programmatic use without accessing the resource, thus avoiding unnecessary data access and transfer

25 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

☐ 12. Document ID: US 6687702 B2

US-PAT-NO: 6687702
DOCUMENT-IDENTIFIER: US 6687702 B2

TITLE: Methodology providing high-speed shared memory access between database middle tier and database server

DATE-ISSUED: February 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vaitheeswaran; Girish	Fremont	CA		
Ghosh; Prasanta	Alameda	CA		
Fatemi; Taghi	Puteaux			FR

US-CL-CURRENT: 707/10; 707/104.1

ABSTRACT:

A multi-tier database system is modified such that a middle-tier application server (EJB server) and a database server run on the same host computer and communicate via shared-memory interprocess communication. The system includes a database (e.g., JDBC) driver thread that attaches to the database server, specifically by attaching to the database server's shared memory segment. Operation of the JDBC driver is modified to provide direct access between the middle tier (i.e., EJB server) and the database server, when the two are operating on the same host computer.

43 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

☐ 13. Document ID: US 6681232 B1

US-PAT-NO: 6681232
DOCUMENT-IDENTIFIER: US 6681232 B1

TITLE: Operations and provisioning systems for service level management in an extended-area data communications network

DATE-ISSUED: January 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sistanizadeh; Kamran	San Francisco	CA		
Kamali; Masoud M.	San Francisco	CA		

US-CL-CURRENT: 707/104.1; 707/103R, 709/224, 709/226, 718/104

ABSTRACT:

An automated service level manager (SLM) provides operations support for wide-area data communication services offered via regional IP-Over Ethernet on fiber networks. The SLM comprises a suite of software components and associated hardware running the software, to communicate with agents throughout the networks, to accumulate various network operations data for reports and alarms and to provide instructions to control network operations. The SLM preferably offers a web server type user interface. This interface enables access by technical personnel of the carrier, for example from a network operations center. This interface also offers access to customers having or seeking service through the network.

44 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

□ 14. Document ID: US 6675227 B1

L4: Entry 14 of 22   File: USPT   Jan 6, 2004

US-PAT-NO: 6675227
DOCUMENT-IDENTIFIER: US 6675227 B1

TITLE: Method for providing a service implementation for both EJB and non-EJB environments

DATE-ISSUED: January 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gavrilo; Galina	Riga			LV
Tost; Andre	Rochester	MN		
Vilnis; Dzintars	Riga			LV

US-CL-CURRENT: 719/316; 719/331, 719/332

ABSTRACT:

A method and object-oriented computing system in which a Java.TM. implementation of
a service is provided dynamically at runtime via a Java.TM. interface for the
service in accordance with the needs of a client computer in one of two varieties:
an Enterprise Java Beans.TM. (EJB) implementation or, alternatively, a non-EJB
implementation. Thus, the same service is accessible, without requiring any
programming code changes, to both clients operating in an EJB environment and
clients operating in a non-EJB environment. The client accesses the service through
two non-EJB interfaces, one for the service (object or bean) itself, and the other
for an abstract factory class. Both of these client interfaces are non-EJB to avoid
dependence upon client access to EJB packages, which may exist for some clients and
not for others. These interfaces operate at runtime to provide a non-EJB
implementation for the service in the event the client accessing the service is not
operating in an EJB environment and, alternatively, to provide an EJB
implementation for the service in the event that the client accessing the service
is operating in an EJB environment.

15 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

☐ 15.   Document ID: US 6665861 B1

L4: Entry 15 of 22   File: USPT   Dec 16, 2003

US-PAT-NO: 6665861
DOCUMENT-IDENTIFIER: US 6665861 B1
** See image for **Certificate of Correction** **

TITLE: Apparatus and method for providing metadata for the creation of semi-
deployed enterprise java beans

DATE-ISSUED: December 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Francis; Timothy Marc	Keswick			CA
Rich; Lawrence Scott	Apex	NC		

US-CL-CURRENT: 717/120

ABSTRACT:

An apparatus, method, and system for generating semi-deployed enterprise java beans
is provided. The apparatus, method and system make use of metadata to identify an
intended deployment of an undeployed enterprise java bean. The metadata may be
packaged with the undeployed enterprise java bean into a java archive file which is
provided to a deployment tool either on the same computing device or a different
computing device. The deployment tool may make use of the metadata when generating
deployment classes for the undeployed enterprise java bean. However, if the
deployment tool is unable to recognize the metadata or the use of the metadata is

not wanted, the deployment tool may also <u>deploy</u> the undeployed enterprise java bean in a conventional manner.

22 Claims, 11 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

☐ 16. Document ID: US 6643652 B2

L4: Entry 16 of 22   File: USPT   Nov 4, 2003

US-PAT-NO: 6643652
DOCUMENT-IDENTIFIER: US 6643652 B2

TITLE: Method and apparatus for managing data exchange among systems in a network

DATE-ISSUED: November 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Helgeson; Christopher S.	Mountain View	CA		
Lipkin; Daniel S.	Belmont	CA		
Larson; Robert S.	Redwood City	CA		
Panuganti; Srinivas	Sunnyvale	CA		

US-CL-CURRENT: <u>707/10</u>; <u>707/104.1</u>, <u>709/202</u>, <u>709/203</u>

ABSTRACT:

The present mechanism provides a solution to the needs described above through a system and method for managing data exchange among systems in a network. The systems and methods of the present mechanism translate data from a system specific local format to a generic interchange format object, and vice versa, with predefined stylesheets using generic components and a system specific service components which utilize a native application programming interface of the specific local system.

31 Claims, 18 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 17

☐ 17. Document ID: US 6633889 B2

L4: Entry 17 of 22   File: USPT   Oct 14, 2003

US-PAT-NO: 6633889

DOCUMENT-IDENTIFIER: US 6633889 B2

TITLE: Mapping persistent data in multiple data sources into a single object-oriented component

DATE-ISSUED: October 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dessloch; Stefan	San Jose	CA		
Saracco; Cynthia Maro	San Jose	CA		
Wolfson; Charles Daniel	Austin	TX		

US-CL-CURRENT: 707/103Y; 707/103R, 707/103Z

ABSTRACT:

A method, apparatus and article of manufacture is provided for mapping persistent data objects residing in multiple data sources into a single, reusable software component accessible to an object-oriented programming language application performed by the computer, for multi-database access to data that may be physically distributed and stored in disparate DBMSs, each stored in an electronic storage device coupled to the computer. The method has steps for identifying data objects in multiple data sources, employing a multi-database software facility for connecting to the data sources containing the data objects, and registering the data objects with the multi-database software facility, creating a single virtual data object consolidating multiple attributes from the registered data objects, and establishing a connection to the multi-database software facility for referencing the virtual data object as though it was a single real data object. It also has a step for wrapping this virtual data object as a reusable software component accessible directly from object-oriented programming language applications.

27 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

US-PAT-NO: 6604046
DOCUMENT-IDENTIFIER: US 6604046 B1

TITLE: High-performance server architecture, methods, and software for spatial data

DATE-ISSUED: August 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Van Watermulen; Douglas M.	Eagan	MN		

Flannery; George F.   Burnsville   MN
Scott; James D.   Eagan   MN

US-CL-CURRENT: 701/208; 709/219, 717/168

ABSTRACT:

Systems that distribute map data and related map services are vital to companies in
many industries, for example, telecommunications, trucking, and national defense.
These systems typically comprise a computer, known as a server, which retrieves the
map data, and a computer, known as a client, which electronically requests and
receives map data from the server over a computer network, such as the Internet.
Servers in these systems often suffer from at least two problems: first, the slow
delivery of the map data and related services to clients, and second, the inability
to operate in different modes with different types of clients. Accordingly, the
inventors devised servers, systems, and related methods for rapidly delivering map
data to many types of client, ranging from mobile telephones and personal digital
assistants to workstations. To support multi-modal operations with at least two
clients, an exemplary system includes a map server having two or more client-mode
software modules or programs that govern how the server interacts with the clients.
The first client, using an appropriate network address, links to the first program
and receives a copy of several mapping objects, enabling the first client to
provide certain map functions independent of the server. The second client links to
the server using a different network address and receives proxy mapping objects,
instead of the actual mapping objects, enabling the second client to work with the
server to provide the map functions. The exemplary system also implements client-
side and server-side caching of map data, and expandable map service pools, all
promoting rapid delivery of map data and services.

62 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw C |

□   19.   Document ID: US 6591272 B1

L4: Entry 19 of 22   File: USPT   Jul 8, 2003

US-PAT-NO: 6591272
DOCUMENT-IDENTIFIER: US 6591272 B1

TITLE: Method and apparatus to make and transmit objects from a database on a
server computer to a client computer

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Williams; Mark	Capitola	CA		

US-CL-CURRENT: 707/102; 707/100, 707/101

ABSTRACT:

Contents of databases are translated into objects by reading the database schema metadata to determine data interrelationships and create objects with nominal human to computer interaction. Metadata for any number of databases is normalized in a standardized view. Skeleton code templates representative of final classes to be produced are accessed and merged with the standardized view. Source code for the class of the objects is then generated. At runtime, data objects are then produced by encapsulating the metadata and data values. Communication between database instances and a client computer consists of metadata and database row values., Rows from database tables and the corresponding metadata are transmitted from the server to the client computer in one logical network operation. The final distributed objects are then assembled into the optimal format required by the client computer. To update, delete or create new persistent objects, the reverse process occurs.

8 Claims, 22 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 22

| Full | Title | Citation | Front | Review | Classification | Data | Reference | | | Claims | KWIC | Draw |

☐ 20. Document ID: US 6574736 B1

US-PAT-NO: 6574736
DOCUMENT-IDENTIFIER: US 6574736 B1
** See image for **Certificate of Correction** **

TITLE: Composable roles

DATE-ISSUED: June 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Andrews; Anthony D.	Redmond	WA		

US-CL-CURRENT: 713/201; 707/100, 709/227, 719/332

ABSTRACT:

An application developer grants access privileges to application processing services in an object-based application by defining logical classes of users called roles. When the application is deployed on a host computer system, an administrator populates the roles with users and groups recognized by the host computer system. At runtime, a user is not permitted access to a processing service unless the user is a member of a permitted role for the processing service. To ease administration, two or more roles can be composed. In one implementation, roles are associated with a separate composite role. The administrator can then populate the composite role instead of individually populating each of the roles associated with the composite role. In another implementation, the administrator can specify that a role follows another role; user identities in the followed role are automatically considered members of the following role. Additional features include an installation utility to help compose roles when installing an application on the host computer system.

An exemplary security framework for implementing composable roles relieves application developers from including security logic in application components.

27 Claims, 20 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 20

☐ 21. Document ID: US 6567809 B2

File: USPT   May 20, 2003

US-PAT-NO: 6567809
DOCUMENT-IDENTIFIER: US 6567809 B2

TITLE: Disabling and reloading enterprise java beans using database trigger programs

DATE-ISSUED: May 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Santosuosso; John Matthew	Rochester	MN		

US-CL-CURRENT: 707/10; 709/246, 717/107

ABSTRACT:

Methods and systems for maintaining coherency of data such as between data contained in executable code and a source location of the data (e.g., a table of a database). In a particular embodiment, an enterprise Java Bean (EJB) is hydrated with data retrieved from a database data structure having a trigger defined thereon. The trigger is fired in response to modifying the data structure. In response to firing the trigger, it is determined whether an invalidation criterion for the EJB has been satisfied. If so, the EJB is invalidated.

32 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

☐ 22. Document ID: US 6167564 A

File: USPT   Dec 26, 2000

US-PAT-NO: 6167564
DOCUMENT-IDENTIFIER: US 6167564 A

TITLE: Software system development framework

DATE-ISSUED: December 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fontana; James Albert	Mission Viejo	CA		
Iyengar; Sridhar Srinivasa	Irvine	CA		
Pitchford; Anthony Reginald	Mission Viejo	CA		
Smith; Norman Roy	Lake Forest	CA		
Tolbert; Douglas Marshall	Newport Beach	CA		

US-CL-CURRENT: 717/104; 717/114, 717/120

ABSTRACT:

A system and method in a computer system for integrating software development tools
and applications into the computer system in order to build, deploy and maintain
enterprise business process applications in a heterogeneous development framework.
Integration of the applications and software development tools are achieved through
integration of the key elements of the computer system which are business models,
domain models and components. In the process of integration the origin of a first
newly developed/modified/existing business model is traced to a first newly
developed/modified/existing domain model and these models are linked together.
Next, the constituent components of a second newly developed/modified/existing
domain model are traced to a newly developed/modified/existing set of components
created and linked together. The system also involves recovery of constituent
components from a newly developed/modified/existing system in a first heterogeneous
environment and those constituent components are reconstructed into usable
components inside a third newly developed/modified/existing domain model and are
linked together. The process also involves recovery of a fourth newly
developed/modified/existing domain model from a second heterogeneous environment
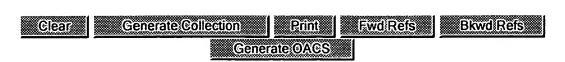and linking it to a second newly developed/modified/existing business model.

1 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 14

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | KWIC | Draw De |

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Terms	Documents
L1 AND deploy	22

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☐ 1.   Document ID: US 6886170 B1

L3: Entry 1 of 32   File: USPT   Apr 26, 2005

US-PAT-NO: 6886170
DOCUMENT-IDENTIFIER: US 6886170 B1

TITLE: Method and apparatus in a data processing system for the issuance and delivery of lightweight requests to concurrent and multiple service providers

DATE-ISSUED: April 26, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		
Sundberg; Sean Michael	Cedar Park	TX		
Woolfrey; John Allen Hubert	Mississauga			CA

US-CL-CURRENT: 719/318; 715/760, 715/764, 717/116

ABSTRACT:

A method and apparatus in a data processing system for managing transactions. A request event is received at a transporter object. The request event includes a target and an indication of how to handle the request event. A destination object is identified within the plurality of destination objects using the request event to form an identified destination object. The request event is sent to the identified destination object, wherein the identified destination object handles the request using the indication and accesses the target.

21 Claims, 197 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

☐ 2.   Document ID: US 6880126 B1

L3: Entry 2 of 32   File: USPT   Apr 12, 2005

US-PAT-NO: 6880126
DOCUMENT-IDENTIFIER: US 6880126 B1

TITLE: Controlling presentation of a GUI, using view controllers created by an application mediator, by identifying a destination to access a target to retrieve data

DATE-ISSUED: April 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		
Sundberg; Sean Michael	Cedar Park	TX		
Woolfrey; John Allen Hubert	Mississauga			CA
Brown; Michael Wilfrid	Austin	TX		

US-CL-CURRENT: 715/526; 715/781

ABSTRACT:

A method and apparatus of an architectural pattern for creating applications for a data processing system. A graphical user interface is created in which the graphical user interface includes a plurality of components. Processes for presenting the plurality of components and receiving user input are handled by a first set of graphical objects, wherein in response to selected user input, a first event is generated. An application object is created in which the application process controls an order in which the graphical objects present the set of components and process the event and wherein the application generates a second event. A transport object is created in which the transport object processes the second event and forwards the second event for processing to a destination within the plurality of destinations. A plurality of destination objects are created in which each destination object within the plurality of destinations objects handles accessing a destination within the plurality of destinations.

29 Claims, 197 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 3. Document ID: US 6880084 B1

L3: Entry 3 of 32   File: USPT   Apr 12, 2005

US-PAT-NO: 6880084
DOCUMENT-IDENTIFIER: US 6880084 B1

TITLE: Methods, systems and computer program products for smart card product management

DATE-ISSUED: April 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brittenham; Peter J.	Apex	NC		
Henson; Larry W.	Apex	NC		
Kleinert; Stephen R.	Raleigh	NC		

US-CL-CURRENT: 713/173; 705/66, 713/200

ABSTRACT:

Methods, systems and computer program products are provided for managing a smart card product by providing a plurality of generic definitions, at least a portion of which have a predefined relationship to others of the generic definitions, so as to provide a hierarchy of generic definitions. Generic definitions are selected from the plurality of generic definitions and associated with an instance of a card product definition so as to define characteristics of the smart card product associated with the instance of the card product definition. The selected generic definitions are populated with data associated with the smart card product so as to provide a hierarchy of instances of the generic definitions which define the characteristics of the smart card product. The smart card product is managed utilizing the hierarchy of instances of the generic definitions so as to provide the smart card product having the defined characteristics. Systems for managing smart card products utilizing instances of definitions from the hierarchy of definitions are also provided.

45 Claims, 28 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 28

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | KWIC | Draw D-

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☐ 4. Document ID: US 6862711 B1

L3: Entry 4 of 32   File: USPT   Mar 1, 2005

US-PAT-NO: 6862711
DOCUMENT-IDENTIFIER: US 6862711 B1

TITLE: Method and apparatus in a data processing system for providing an interface for non-intrusive observable debugging, tracing, and logging data from execution of an application

DATE-ISSUED: March 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		

US-CL-CURRENT: <u>715</u>/<u>526</u>; <u>715</u>/<u>764</u>, <u>717</u>/<u>108</u>, <u>717</u>/<u>116</u>, <u>717</u>/<u>127</u>, <u>717</u>/<u>128</u>

ABSTRACT:

A method and apparatus in a data processing system for providing an interface to an application for monitoring execution of the application. An event generated by a view controller is detected, wherein the view controller handles presentation of a container in a graphical user interface. A determination is made as to whether the event is an event selected for monitoring. Responsive to the determination that the event is an event selected for monitoring, a request event is generated, wherein the request event includes data from the event and a destination.

7 Claims, 175 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

□ 5. Document ID: US 6862686 B1

L3: Entry 5 of 32   File: USPT   Mar 1, 2005

US-PAT-NO: 6862686
DOCUMENT-IDENTIFIER: US 6862686 B1

TITLE: Method and apparatus in a data processing system for the separation of role-based permissions specification from its corresponding implementation of its semantic behavior

DATE-ISSUED: March 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		
Sundberg; Sean Michael	Cedar Park	TX		
Woolfrey; John Allen Hubert	Mississauga			CA

US-CL-CURRENT: <u>713</u>/<u>201</u>; <u>713</u>/<u>167</u>, <u>719</u>/<u>315</u>

ABSTRACT:

A method and apparatus in a data processing system for managing permissions in an application. A user input is received at a container handled by a view controller, wherein the user input requests a change in permissions in the application. This user input, may be, for example, a change in security in an application through a login process. A view event describing the user input is generated. The view event is received at an application mediator. Responsive to receiving the view event, by the application mediator, a request event is generated and a permission corresponding to the user input is received. The permission alters an item, which may be in either of both the view controller and the application mediator.

40 Claims, 197 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

□ 6. Document ID: US 6859834 B1

L3: Entry 6 of 32   File: USPT   Feb 22, 2005

US-PAT-NO: 6859834
DOCUMENT-IDENTIFIER: US 6859834 B1

TITLE: System and method for enabling application server request failover

DATE-ISSUED: February 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arora; Tej	Sunnyvale	CA		
Das; Saumitra	Santa Clara	CA		

US-CL-CURRENT: 709/227; 709/225, 714/4

ABSTRACT:

System and method for enabling application server request failover. For each
application server request to be performed by a client computer, a requesting
thread may be operable to utilize a custom wire-level communication protocol.
Request failure detection mechanisms may be built into the custom wire-level
communication protocol so that a requesting thread detects a failed request much
sooner than if the thread utilized a standard communication protocol and relied on
the client computer operating system for notification of failed requests. After
sending a request to an application server, a requesting thread may be operable to
"sleep" and then periodically wake up to poll the application server computer to
determine whether the request has failed. If the requesting thread receives a
response from the application server computer indicating that the request is not
currently being processed, then the requesting thread may re-send the request.
Receiving no response to the poll message may indicate that the application server
computer is offline, e.g., due to a failure. The requesting thread may redirect the
request to another application server computer if necessary.

48 Claims, 25 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 25

□ 7. Document ID: US 6850893 B2

L3: Entry 7 of 32   File: USPT   Feb 1, 2005

US-PAT-NO: 6850893
DOCUMENT-IDENTIFIER: US 6850893 B2

TITLE: Method and apparatus for an improved security system mechanism in a business applications management system platform

DATE-ISSUED: February 1, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lipkin; Daniel S.	Belmont	CA		
Mehra; Gaurav	Bandra (w) Mumbai			IN

US-CL-CURRENT: 705/8; 434/118, 434/350, 434/362, 705/76, 705/9, 707/1, 707/103R, 713/182, 713/200, 713/201

ABSTRACT:

The present invention provides a solution to the needs described above through an improved method and apparatus for an improved security system mechanism in a business applications management system platform. The security management system partitions a number of business objects into a number of hierarchical domains. A security list is then created and configured to grant a member the right to perform a security operation on the business object located within the hierarchical domain. The security list is created by adding the security operation to the security list, applying the security operation to one of the multiple domains, and adding members to the security list.

32 Claims, 19 Drawing figures
Exemplary Claim Number: 12
Number of Drawing Sheets: 17

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWIC	Draw C

US-PAT-NO: 6829771
DOCUMENT-IDENTIFIER: US 6829771 B1

TITLE: Method and apparatus for selectable event dispatching

DATE-ISSUED: December 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		

US-CL-CURRENT: <u>719</u>/<u>318</u>; <u>719</u>/<u>315</u>

ABSTRACT:

A method and apparatus in a data processing system for dispatching events. An event from a first object is received. A type for the event is identified. A dispatching strategy is selected for the event based on parameter settings, a source of the event, and default settings to form a selected dispatching strategy. The event is dispatched using the selected dispatching strategy.

49 Claims, 225 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 142

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D-

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☐ 9. Document ID: US 6816882 B1

L3: Entry 9 of 32   File: USPT   Nov 9, 2004

US-PAT-NO: 6816882
DOCUMENT-IDENTIFIER: US 6816882 B1

TITLE: System and method for automatically negotiating license agreements and installing arbitrary user-specified applications on application service providers

DATE-ISSUED: November 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conner; Michael Haden	Austin	TX		
Vicknair; Wayne Elmo	Austin	TX		
Becker; Craig Henry	Austin	TX		
Nicholas; Stewart E.	Austin	TX		

US-CL-CURRENT: <u>709</u>/<u>203</u>; <u>709</u>/<u>217</u>, <u>709</u>/<u>219</u>

ABSTRACT:

A user contracts with an application service provider for hosting a needed application. By contracting with a service provider the user may interact with the application by using only a thin client rather than maintaining a thick client. The user rents an application from either the service provider or an independent application provider. If the user procures the application from an application provider, the application provider negotiates hosting terms with the service provider prior to installing the application into the service provider's warehouse. The application provider also checks that the services provided by the service provider meet the minimum requirements of the application. Once installed, the service provider may offer the application to other users along with services for the application. The user may procure additional services from the service provider for supporting the application. A user can then dynamically download the application "on-demand".

16 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

☐ 10. Document ID: US 6816871 B2

L3: Entry 10 of 32   File: USPT   Nov 9, 2004

US-PAT-NO: 6816871
DOCUMENT-IDENTIFIER: US 6816871 B2

TITLE: Delivering output XML with dynamically selectable processing

DATE-ISSUED: November 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Michele C.	San Francisco	CA		

US-CL-CURRENT: 707/104.1; 707/10

ABSTRACT:

In response to a user request, an Identity System generates an Output XML
containing raw identity information organized in accordance with a set of XML
templates. The Identity System dynamically determines the desired response type and
prepares the response from the Output XML. One response type is server-side
processing--the Identity System combines the Output XML with XSL stylesheets to
generate a HTML response. An alternative response type is client-side processing--
the Identity System supplies the user with the Output XML. In further client-side
embodiments, the Identity System provides XSL stylesheet references along with the
Output XML. Additional embodiments provide for the Identity System to perform
customized post-processing on the Output XML.

33 Claims, 77 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 52

☐ 11. Document ID: US 6782508 B1

L3: Entry 11 of 32   File: USPT   Aug 24, 2004

US-PAT-NO: 6782508
DOCUMENT-IDENTIFIER: US 6782508 B1

TITLE: Relaying input from a GUI view controllers to application mediators which
created the view controllers

DATE-ISSUED: August 24, 2004

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		

US-CL-CURRENT: 715/526; 715/764

ABSTRACT:

A method and apparatus in a data processing system for processing user input in a
graphical user interface. A graphical user interface is presented using a view
controller, wherein the view controller handles the user input to the graphical
user interface. Responsive to a selected user input, an event is sent to a first
application mediator. Responsive to the first application mediator being unable to
process the event, the event is sent to a second application mediator for
processing, wherein the first application mediator and the second application
mediator handle an order in which a set of displays are displayed by a view
controller.

18 Claims, 197 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw C |

☐ 12.   Document ID: US 6782379 B2

L3: Entry 12 of 32   File: USPT   Aug 24, 2004

US-PAT-NO: 6782379
DOCUMENT-IDENTIFIER: US 6782379 B2
** See image for Certificate of Correction **

TITLE: Preparing output XML based on selected programs and XML templates

DATE-ISSUED: August 24, 2004

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Lee; Michele C.	San Francisco	CA		

US-CL-CURRENT: 707/2; 707/104.1

ABSTRACT:

An Identity System delivers customized request responses that integrate the results
of multiple programs. The Identity System receives and translates a user request.
The Identity Systems employs a program service to identify all the programs
required to complete the request. The Identity System uses a XML data registry to
retrieve a XML template and XSL stylesheet for each program. The Identity System
executes all of the programs for the request and organizes their results into a

single data structure, based on the templates for each program. The Identity System then applies attribute display characteristics to convert the data structure into a single Output XML. The Output XML can be provided directly to the user or receive further processing using the retrieved XSL stylesheets.

45 Claims, 77 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 52

□ 13. Document ID: US 6779177 B1

L3: Entry 13 of 32   File: USPT   Aug 17, 2004

US-PAT-NO: 6779177
DOCUMENT-IDENTIFIER: US 6779177 B1

TITLE: Mechanism for cross channel multi-server multi-protocol multi-data model thin clients

DATE-ISSUED: August 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		
Sundberg; Sean Michael	Cedar Park	TX		
Woolfrey; John Allen Hubert	Mississauga			CA

US-CL-CURRENT: 717/173; 717/136, 717/169, 717/170

ABSTRACT:

A method and apparatus in a data processing system for refreshing data in an application. A call is received to update data in the application, wherein the data is destined for a component in the application. A data type is identified for the data. Responsive to the data type being a handled data type, the data is formatted and a refresh is called on the component.

30 Claims, 197 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

□ 14. Document ID: US 6779155 B1

US-PAT-NO: 6779155
DOCUMENT-IDENTIFIER: US 6779155 B1

TITLE: Method and apparatus in a data processing system for the controlling and
sequencing of graphical user interface components and mediating access to system
services for those components

DATE-ISSUED: August 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		
Sundberg; Sean Michael	Cedar Park	TX		
Woolfrey; John Allen Hubert	Mississauga			CA

US-CL-CURRENT: 715/526; 715/760, 715/803

ABSTRACT:

A method and apparatus in a data processing system for displaying a graphical user
interface. A container is displayed in a graphical user interface from a set of
containers, wherein a display of the container handled by a view controller from a
set of view controllers. Each view controller handles the display of an associated
container within the set of containers and user input for the associated container.
A display of the set of containers is altered by an application mediator, wherein
the set of containers are displayed in an order determined by the application
mediator.

14 Claims, 197 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | KWIC | Draw D- |

□ 15.   Document ID: US 6753889 B1

US-PAT-NO: 6753889
DOCUMENT-IDENTIFIER: US 6753889 B1

TITLE: Platform independent business to business messenger adapter generation tool

DATE-ISSUED: June 22, 2004

INVENTOR-INFORMATION:

US-CL-CURRENT: 715/784; 705/10

ABSTRACT:

A method, apparatus, and system for providing a reliable message adapter generation tool are described. As a method, a first partner schema for the business message and a second partner schema for the business message are first loaded and displayed. A first partner schema link is selected as a current first partner schema link and a second partner schema link is selected as a current second partner schema link. If it is determined that the current first partner schema link correlates to the current second partner schema then the current first partner schema link and the current second partner schema link are link. If there is no correlation, then next links are recursively selected.

18 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 12

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw |

☐ 16. Document ID: US 6748570 B1

US-PAT-NO: 6748570
DOCUMENT-IDENTIFIER: US 6748570 B1

TITLE: Sending a view event, and a request event having a class name and a method name

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		
Sundberg; Sean Michael	Cedar Park	TX		
Woolfrey; John Allen Hubert	Mississauga			CA

US-CL-CURRENT: 715/526; 715/764, 717/116, 717/118

ABSTRACT:

A method and apparatus for a data processing system for accessing classes and methods in an object oriented system. Responsive to receiving a selected user input to a container, a view event is sent from a view controller to an application mediator. The view event identifies an action taken to generate the selected user

input. A request is selectively generated based on the view event, wherein the request event includes a major code identifying a class name as a destination and a minor code identifying a method name a function to be invoked. The request event is sent to a transporter. The transporter acts as a router to send the request event to an appropriate destination object from a plurality of destination objects. Responsive to receiving the request event at the transporter, the request event is sent to a destination object within a plurality of destination objects based in the class name. The destination object formats the request event into a form recognizable by the destination associated with the destination object. The destination may be located on a remote data processing system. The request event is used to access the class or method identified in the request event. The access may be, for example, an invocation of the method.

17 Claims, 197 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

☐ 17. Document ID: US 6748287 B1

US-PAT-NO: 6748287
DOCUMENT-IDENTIFIER: US 6748287 B1
** See image for **Certificate of Correction** **

TITLE: Adaptive real-time work-in -progress tracking, prediction, and optimization system for a semiconductor supply chain

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hagen; Klaus ten	Sunnyvale	CA		
Orshansky; Michael E.	Oakland	CA		

US-CL-CURRENT: 700/99; 700/100, 700/95, 705/8

ABSTRACT:

A work-in-progress (WIP) tracking system is used to coordinate a semiconductor supply chain. The WIP tracking receives WIP updates from semiconductor supply chain vendors and generates advanced notices based on an analysis of the WIP updates and predetermined rules. The advanced notices are delivered to downstream vendors to reduce semiconductor manufacturing cycle time and unpredictability between different semiconductor manufacturing phases.

46 Claims, 15 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 15

□ 18. Document ID: US 6745187 B2

L3: Entry 18 of 32   File: USPT   Jun 1, 2004

US-PAT-NO: 6745187
DOCUMENT-IDENTIFIER: US 6745187 B2
** See image for **Certificate of Correction** **

TITLE: Environmental permit web portal

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Singer; Gary Brian	Ann Arbor	MI		
Adams; Jeffrey Neal	Alexandria	VA		
Goldwein; Clay Wyatt	McLean	VA		

US-CL-CURRENT: 707/9; 705/7, 707/10, 707/102, 707/104.1, 709/203, 709/218, 715/513

ABSTRACT:

A system is disclosed that allows remote, regulated entity users web based access
to authorization data, such as permit data in an environmental regulatory
permitting or management system. The user can enter, edit and submit permit and
compliance data in the environmental permitting system controlled by a regulating
agency in real-time via a web browser over the Internet. The system can also
validate submitted information in real-time and allows the user to correct the
data. Electronic certification with a unique signature is also performed. Fee
payment can be made electronically in real-time through the permitting system with
an electronic payments system with a corresponding credit being made to the
relevant department general ledger account.

7 Claims, 30 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 30

□ 19. Document ID: US 6721747 B2

L3: Entry 19 of 32   File: USPT   Apr 13, 2004

US-PAT-NO: 6721747
DOCUMENT-IDENTIFIER: US 6721747 B2

TITLE: Method and apparatus for an information server

DATE-ISSUED: April 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lipkin; Daniel S.	Belmont	CA		

US-CL-CURRENT: 707/10; 707/100, 707/200, 707/3, 707/8, 709/200, 709/202, 709/217, 709/225, 715/501.1, 715/513, 715/523

ABSTRACT:

The present invention provides a method and apparatus for managing information in an information resource system containing a server, a client, and a database, by generating metadata using an import agent, determining at least one match using a match agent, and dispatching the at least one match or a result associated with the match using a delivery agent. In an aspect of the invention, the metadata may be RDF metadata. In another aspect of the invention, the match agent may determine the match using an RQL query.

24 Claims, 19 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 17

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw C |

☐ 20. Document ID: US 6704805 B1

L3: Entry 20 of 32   File: USPT   Mar 9, 2004

US-PAT-NO: 6704805
DOCUMENT-IDENTIFIER: US 6704805 B1

TITLE: EJB adaption of MQ integration in componetbroker

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Acker; Liane Elizabeth Haynes	Orange Park	FL		
Chen; Ping	Austin	TX		
Knutson; James Irwin	Austin	TX		
Zhou; Zhong-Yu	Austin	TX		

US-CL-CURRENT: 719/315; 719/314, 719/316

ABSTRACT:

A system, method, and program product, in which a stateful EJB session bean is used as the front end to client calls. In this configuration, a queue is represented by a session bean instance. "Put" and "get" are called on the relevant session bean instances. Thus, for example, a client, instead of first finding a home for a given type of OMs then calling "put" on the home to send out messages, will find a session bean home, create a session bean instance corresponding to a queue, and call "put" on the bean instance to send messages. In this manner, the message queue

can be managed using standard EJB techniques.

36.Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

☐ 21. Document ID: US 6687848 B1

L3: Entry 21 of 32   File: USPT   Feb 3, 2004

US-PAT-NO: 6687848
DOCUMENT-IDENTIFIER: US 6687848 B1

TITLE: Techniques for preventing information loss in a business to business message
in an enterprise computer system

DATE-ISSUED: February 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Najmi; Farrukh S.	Reading	MA		

US-CL-CURRENT: 714/4; 705/28, 705/29, 714/747

ABSTRACT:

A method of maintaining informational integrity of a business to business (B2B)
message in a distributed e-business environment is described. A sent message is
stored a selected portion of which is flagged. A corresponding response message is
then compared to the stored sent message. Based upon the comparing, when the
response message matches the stored sent message, if a portion of the response
message corresponding to the flagged portion is determined to be substantially
missing, then the missing portion of the response message is replaced.

13 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 12

☐ 22. Document ID: US 6675261 B2

L3: Entry 22 of 32   File: USPT   Jan 6, 2004

US-PAT-NO: 6675261
DOCUMENT-IDENTIFIER: US 6675261 B2

TITLE: Request based caching of data store data

DATE-ISSUED: January 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shandony; Michael J.	Santa Clara	CA		

US-CL-CURRENT: <u>711</u>/<u>121</u>; <u>710</u>/<u>310</u>, <u>710</u>/<u>56</u>, <u>711</u>/<u>129</u>, <u>711</u>/<u>154</u>, <u>711</u>/<u>170</u>, <u>718</u>/<u>104</u>, <u>718</u>/<u>105</u>

ABSTRACT:

A request, such as those embedded in URLs and XML documents, is assigned to a thread of execution in a server that is in communication with a data store. The thread of execution includes a thread local storage with a pointer to a cache object. The cache object maintains copies of data store entries frequently accessed by the assigned request. The cache object is accessed in response to data store access commands arising from the request. When a data store access command specifies a data store entry not found in the cache object, the server creates and loads a corresponding cache object entry. The cache object is not updated when other requests alter data store entries, and memory access commands arising from other requests cannot cause the cache object to be accessed. When the request causes the server to write data to the data store, the cache object also maintains a copy of the written data. The server retrieves the written data from the cache object in response to subsequent data store access queries arising from the request. The cache object is destroyed once the server completes a response to the request.

36 Claims, 77 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 52

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw C- |

☐ 23. Document ID: US 6675228 B1

L3: Entry 23 of 32   File: USPT   Jan 6, 2004

US-PAT-NO: 6675228
DOCUMENT-IDENTIFIER: US 6675228 B1

TITLE: Method and apparatus in a data processing system for generating alternative views of client applications

DATE-ISSUED: January 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		

US-CL-CURRENT: <u>719</u>/<u>318</u>; <u>715</u>/<u>760</u>, <u>715</u>/<u>764</u>

ABSTRACT:

A process and apparatus in a data processing system for presenting a view to a client. At an application mediator, a view event is received from a view controller, wherein the view event describes an action on a displayed container handled by the view controller. Responsive to a requirement that a change in a placement of the displayed container is required, a placement event is generated by the application mediator. A determination is then made by a placement listener, as to whether the placement event includes an indication that an alternate view is to be generated. Responsive to a determination that an alternate view is to be generated, a call is sent to a method in the view controller to generate the alternate view.

20 Claims, 197 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

☐ 24. Document ID: US 6654932 B1

US-PAT-NO: 6654932
DOCUMENT-IDENTIFIER: US 6654932 B1

TITLE: Validating data within container objects handled by view controllers

DATE-ISSUED: November 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		

US-CL-CURRENT: 715/507; 715/508, 715/764, 717/116

ABSTRACT:

A method and apparatus in a data processing system for performing validation of user input. User input is received in a container displayed in a graphical user interface, wherein presentation of the container and the user input to the container are handled by a view controller. Responsive to receiving the user input, a call is sent to a validation object by the view controller. Responsive to the call, the validation object tests the user input using a criteria, wherein the rule is separate from the view controller.

25 Claims, 196 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

US-PAT-NO: 6643652
DOCUMENT-IDENTIFIER: US 6643652 B2

TITLE: Method and apparatus for managing data exchange among systems in a network

DATE-ISSUED: November 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Helgeson; Christopher S.	Mountain View	CA		
Lipkin; Daniel S.	Belmont	CA		
Larson; Robert S.	Redwood City	CA		
Panuganti; Srinivas	Sunnyvale	CA		

US-CL-CURRENT: 707/10; 707/104.1, 709/202, 709/203

ABSTRACT:

The present mechanism provides a solution to the needs described above through a system and method for managing data exchange among systems in a network. The systems and methods of the present mechanism translate data from a system specific local format to a generic interchange format object, and vice versa, with predefined stylesheets using generic components and a system specific service components which utilize a native application programming interface of the specific local system.

31 Claims, 18 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 17

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

US-PAT-NO: 6615188
DOCUMENT-IDENTIFIER: US 6615188 B1
** See image for **Certificate of Correction** **

TITLE: Online trade aggregating system

DATE-ISSUED: September 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Breen; Peter E.	Basking Ridge	NJ		

Macleod; Michael D.   New York   NY
Tudisco; Geoffrey M.   New York   NY

US-CL-CURRENT: 705/37

ABSTRACT:

A trading server collects orders from a plurality of <u>order</u> terminals. Orders are aggregated by transaction type, such as buy or sell types, and by issuer. The combined orders are executed as a single transaction on an exchange.

17 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

☐ 27. Document ID: US 6571274 B1

L3: Entry 27 of 32   File: USPT   May 27, 2003

US-PAT-NO: 6571274
DOCUMENT-IDENTIFIER: US 6571274 B1

TITLE: Clustered enterprise Java.TM. in a secure distributed processing system

DATE-ISSUED: May 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jacobs; Dean B.	Berkeley	CA		
Langen; Anno R.	Berkeley	CA		

US-CL-CURRENT: 709/203; 718/1

ABSTRACT:

A clustered enterprise Java.TM. distributed processing system is provided. The distributed processing system includes a first and a second computer coupled to a communication medium. The first computer includes a Java.TM. virtual machine (JVM) and kernel software layer for transferring messages, including a remote Java.TM. virtual machine (RJVM). The second computer includes a JVM and a kernel software layer having a RJVM. Messages are passed from a RJVM to the JVM in one computer to the JVM and RJVM in the second computer. Messages may be forwarded through an intermediate server or rerouted after a network reconfiguration. Each computer includes a Smart stub having a replica handler, including a load balancing software component and a failover software component. Each computer includes a duplicated service naming tree for storing a pool of Smart stubs at a node. The computers may be programmed in a stateless, stateless factory, or a stateful programming model. The clustered enterprise Java.TM. distributed processing system allows for enhanced scalability and fault tolerance.

19 Claims, 20 Drawing figures

Exemplary Claim Number: 1
Number of Drawing Sheets: 16

☐ 28. Document ID: US 6557009 B1

L3: Entry 28 of 32   File: USPT   Apr 29, 2003

US-PAT-NO: 6557009
DOCUMENT-IDENTIFIER: US 6557009 B1

TITLE: Environmental permit web portal with data validation capabilities

DATE-ISSUED: April 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Singer; Gary Brian	Ann Arbor	MI		
Adams; Jeffrey Neal	Alexandria	VA		
Goldwein; Clay Wyatt	McLean	VA		

US-CL-CURRENT: 707/104.1; 705/7, 707/10, 707/102, 709/218, 715/513

ABSTRACT:

A system is disclosed that allows remote, regulated entity users web based access
to authorization data, such as permit data in an environmental regulatory
permitting or management system. The user can enter, edit and submit permit and
compliance data in the environmental permitting system controlled by a regulating
agency in real-time via a web browser over the Internet. The system can also
validate submitted information in real-time and allows the user to correct the
data. Electronic certification with a unique signature is also performed. Fee
payment can be made electronically in real-time through the permitting system with
an electronic payments system with a corresponding credit being made to the
relevant department general ledger account.

54 Claims, 30 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 30

☐ 29. Document ID: US 6425017 B1

L3: Entry 29 of 32   File: USPT   Jul 23, 2002

US-PAT-NO: 6425017
DOCUMENT-IDENTIFIER: US 6425017 B1
** See image for Certificate of Correction **

TITLE: Queued method invocations on distributed component applications

DATE-ISSUED: July 23, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dievendorff; Richard	Bellevue	WA		
Helland; Patrick J.	Bellevue	WA		
Chopra; Gagan	Redmond	WA		
Al-Ghosein; Mohsen	Redmond	WA		

US-CL-CURRENT: 719/315

ABSTRACT:

An object runtime architecture allows method invocations to be made on either a synchronous, real-time basis or a queued basis using the normal call semantics of an object model. The object runtime architecture provides a proxy of an object with a method invocation recorder for receiving method calls of a client on the object, and marshaling the method calls into a message for sending to a queue associated with the object. The object runtime architecture further provides a listener for dispatching the message from the queue to a player which uses a stub to unmarshal the message in order to issue the method calls to the object. The object runtime architecture thus decouples the client and objects lifetimes and availability, without requiring explicit programming of the client and object to perform message queuing. Accordingly, with no modification of the object's interface structure or code, the same object can be used in either a real-time or queued environment. This allows the decision between real-time or queued method invocations to be made much later than at development of the object, such as at run-time creation of the object.

14 Claims, 10 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | KWIC | Draw D

☐ 30.   Document ID: US 6385643 B1

L3: Entry 30 of 32   File: USPT   May 7, 2002

US-PAT-NO: 6385643
DOCUMENT-IDENTIFIER: US 6385643 B1

TITLE: Clustered enterprise Java.TM. having a message passing kernel in a distributed processing system

DATE-ISSUED: May 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jacobs; Dean B.	Berkeley	CA		

Langen; Anno R.   Berkeley   CA

US-CL-CURRENT: 709/203; 709/201, 709/238

ABSTRACT:

A clustered enterprise Java.TM. distributed processing system is provided. The
distributed processing system includes a first and a second computer coupled to a
communication medium. The first computer includes a Java.TM. virtual machine (JVM)
and kernel software layer for transferring messages, including a remote Java.TM.
virtual machine (RJVM). The second computer includes a JVM and a kernel software
layer having a RJVM. Messages are passed from a RJVM to the JVM in one computer to
the JVM and RJVM in the second computer. Messages may be forwarded through an
intermediate server or rerouted after a network reconfiguration. Each computer
includes a Smart stub having a replica handler, including a load balancing software
component and a failover software component. Each computer includes a duplicated
service naming tree for storing a pool of Smart stubs at a node. The computers may
be programmed in a stateless, stateless factory, or a stateful programming model.
The clustered enterprise Java.TM. distributed processing system allows for enhanced
scalability and fault tolerance.

30 Claims, 20 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

| Full | Title | Citation | Front | Review | Classification | Data | Reference | | | | Claims | KWIC | Draw C |

☐   31.   Document ID: US 6292933 B1

L3: Entry 31 of 32   File: USPT   Sep 18, 2001

US-PAT-NO: 6292933
DOCUMENT-IDENTIFIER: US 6292933 B1
** See image for **Certificate of Correction** **

TITLE: Method and apparatus in a data processing system for systematically
serializing complex data structures

DATE-ISSUED: September 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bahrs; Peter C.	Austin	TX		
Chancey; Raphael Poole	Austin	TX		
Feigenbaum; Barry Alan	Austin	TX		
Modh; Manish Mahesh	Round Rock	TX		
Sundberg; Sean Michael	Cedar Park	TX		
Woolfrey; John Allen Hubert	Mississauga			CA

US-CL-CURRENT: 717/107; 707/203, 717/108, 717/109

ABSTRACT:

A method and apparatus in a data processing system for serialization data. A serializer receives a data element for serialization, wherein the data element includes a class name string. Responsive to receiving the data element, the serializer replaces the class name string with a code having a smaller size than the class name string to form a modified data element. Responsive to forming the modified data element, in which the serializer serializes the modified data element. The serialized data is transmitted and deserialized by deserializer which replaces the indicator with the class name.

24 Claims, 197 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 119

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KwiC | Draw C |

☐ 32. Document ID: US 6167564 A

US-PAT-NO: 6167564
DOCUMENT-IDENTIFIER: US 6167564 A

TITLE: Software system development framework

DATE-ISSUED: December 26, 2000

INVENTOR-INFORMATION:

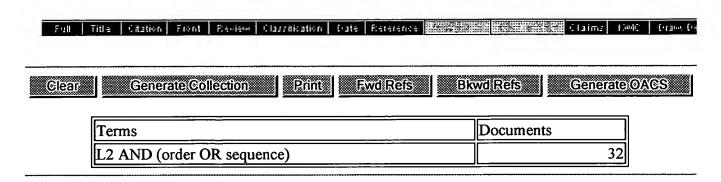| NAME	CITY	STATE	ZIP CODE	COUNTRY
Fontana; James Albert	Mission Viejo	CA		
Iyengar; Sridhar Srinivasa	Irvine	CA		
Pitchford; Anthony Reginald	Mission Viejo	CA		
Smith; Norman Roy	Lake Forest	CA		
Tolbert; Douglas Marshall	Newport Beach	CA		

US-CL-CURRENT: 717/104; 717/114, 717/120

ABSTRACT:

A system and method in a computer system for integrating software development tools and applications into the computer system in order to build, deploy and maintain enterprise business process applications in a heterogeneous development framework. Integration of the applications and software development tools are achieved through integration of the key elements of the computer system which are business models, domain models and components. In the process of integration the origin of a first newly developed/modified/existing business model is traced to a first newly developed/modified/existing domain model and these models are linked together. Next, the constituent components of a second newly developed/modified/existing domain model are traced to a newly developed/modified/existing set of components created and linked together. The system also involves recovery of constituent components from a newly developed/modified/existing system in a first heterogeneous environment and those constituent components are reconstructed into usable components inside a third newly developed/modified/existing domain model and are

linked together. The process also involves recovery of a fourth newly developed/modified/existing domain model from a second heterogeneous environment and linking it to a second newly developed/modified/existing business model.

1 Claims, 14 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 14

Terms	Documents
L2 AND (order OR sequence)	32

Display Format: REV Change Format